



1623

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michele Orlando et al. Art Unit : 1623
Serial No. : 10/530,849 Examiner : Unknown
Filed : January 19, 2006 Conf. No. : 9170
Title : PHARMACEUTICALLY ACTIVE OLIGOSACCHARIDE CONJUGATES

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: December 21, 2006

Elizabeth N. Kaytor
Elizabeth N. Kaytor, Ph.D.
Reg. No. 53,103

Fish & Richardson P.C.
60 South Sixth Street, Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696

60401105.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 21, 2006
Date of Deposit
Signature [Signature]
Lisa M. Becker
Typed or Printed Name of Person Signing Certificate



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michele Orlando et al. Art Unit : 1623
Serial No. : 10/530,849 Examiner : Unknown
Filed : January 19, 2006 Conf. No. : 9170
Title : PHARMACEUTICALLY ACTIVE OLIGOSACCHARIDE CONJUGATES

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (15 pages);
3. Copies of Cited References (287 references); and
4. A Return Postcard.

Please date stamp and return the enclosed postcard. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: December 21, 2006

Elizabeth N. Kaytor
Elizabeth N. Kaytor, Ph.D.
Reg. No. 53,103

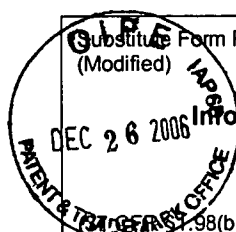
Fish & Richardson P.C.
60 South Sixth Street
Suite 3300
Minneapolis, MN 55402
(612) 335-5070 telephone
(612) 288-9696 facsimile

60401103.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 21, 2006
Date of Deposit
Signature [Signature]
Lisa M. Becker
Typed or Printed Name of Person Signing Certificate

 Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
	Applicant Michele Orlando et al.		
	Filing Date April 8, 2005	Group Art Unit 1623	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	1	3,191,291	06/29/65	Maier			
	2	4,064,118	12/20/77	Wong			
	3	4,125,492	11/14/78	Cuatrecasas et al.			
	4	4,179,337	12/18/79	Davis et al.			
	5	4,261,973	04/14/81	Lee et al.			
	6	4,412,989	11/01/83	Iwashita et al.			
	7	4,667,016	05/19/87	Lai et al.			
	8	4,703,008	10/27/87	Lin			
	9	4,766,106	08/23/88	Katre et al.			
	10	4,847,325	07/11/89	Shadle et al.			
	11	4,863,964	09/05/89	Hedlund et al.			
	12	4,904,584	02/27/90	Shaw			
	13	5,068,321	11/26/91	Buysch et al.			
	14	5,214,132	05/25/93	Kuga et al.			
	15	5,217,998	06/08/93	Hedlund et al.			
	16	5,218,092	06/08/93	Sasaki et al.			
	17	5,218,108	06/08/93	Sommermeier et al.			
	18	5,281,698	01/25/94	Nitecki			
	19	5,362,853	11/08/94	Kuga et al.			
	20	5,470,843	11/28/95	Stahl et al.			
	21	5,484,903	01/16/96	Szablikowski et al.			
	22	5,543,332	08/06/96	Lihme et al.			
	23	5,581,476	12/03/96	Osslund			
	24	5,622,718	04/22/97	Al-Shamkhani et al.			
	25	6,083,909	07/04/00	Sommermeier et al.			
	26	6,555,660	04/29/03	Nissen et al.			
	27	2004/0180858	09/16/04	Sommermeier			

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	28	2 441 442	09/26/03	CA				
	29	2 478 478	01/09/04	CA				
	30	2 478 480	01/09/04	CA				
	31	279 486	06/06/90	DD			Abst.	
	32	100 41 541	03/14/02	DE			Abst.	
	33	101 12 825	02/10/02	DE			Abst.	
	34	101 26 158	12/12/02	DE			Abst.	
	35	101 29 369	03/06/03	DE			Abst.	
	36	101 35 694	02/06/03	DE			Abst.	
	37	101 55 098	05/22/03	DE			Abst.	
	38	102 09 821	09/25/03	DE			Abst.	
	39	102 17 994	11/06/03	DE			Abst.	
	40	102 54 745	06/03/04	DE			Abst.	
	41	102 56 558	09/16/04	DE			Abst.	
	42	196 28 705	01/15/98	DE			Abst.	
	43	198 08 079	08/26/99	DE			Abst.	
	44	22 33 977	02/01/73	DE			Abst.	
	45	26 07 706	05/13/93	DE			Abst.	
	46	26 16 086	11/03/77	DE			Abst.	
	47	26 46 854	05/03/89	DE			Abst.	
	48	30 29 307	03/04/82	DE			Abst.	
	49	38 36 600	05/03/90	DE			Abst.	
	50	41 30 807	03/18/93	DE			Abst.	
	51	0 019 403	11/26/80	EP				
	52	0 138 572	04/24/85	EP				
	53	0 148 605	07/25/90	EP				
	54	0 205 564	05/02/91	EP				

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
	Applicant Michele Orlando et al.		
	Filing Date April 8, 2005	Group Art Unit 1623	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	55	0 243 929	11/04/87	EP				
	56	0 304 183	02/22/89	EP				
	57	0 307 827	03/22/89	EP				
	58	0 315 349	05/10/89	EP				
	59	0 338 916	10/25/89	EP			Abst.	
	60	0 402 724	06/02/90	EP			Abst.	
	61	0 411 678	01/08/92	EP				
	62	0 418 523	06/21/95	EP				
	63	0 428 267	05/22/91	EP				
	64	0 605 963	07/13/94	EP				
	65	0 609 968	08/10/94	EP				
	66	0 640 619	03/01/95	EP				
	67	0 646 130	04/05/95	EP				
	68	0 668 351	08/23/95	EP				
	69	0 809 996	05/31/96	EP				
	70	1 230 935	08/14/02	EP			Abst.	
	71	1 398 322	09/11/03	EP				
	72	1 398 327	09/11/03	EP				
	73	1 398 328	09/11/03	EP				
	74	1 400 533	09/11/02	EP				
	75	1 419 080	12/24/75	GB				
	76	WO 02/80979	10/17/02	WIPO			Abst.	
	77	WO 02/09766	02/07/02	WIPO				
	78	WO 02/40057	05/23/02	WIPO				
	79	WO 03/00738	01/03/03	WIPO			Abst.	
	80	WO 03/59246	07/24/03	WIPO				
	81	WO 03/74087	09/12/03	WIPO			Abst.	

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	82	WO 03/74088	09/12/03	WIPO			Abst.	
	83	WO 04/09082	01/29/04	WIPO				
	84	WO 04/24761	03/25/04	WIPO				
	85	WO 04/50710	06/17/04	WIPO			Abst.	
	86	WO 04/65425	08/05/04	WIPO			Abst.	
	87	WO 90/07939	07/26/90	WIPO				
	88	WO 90/15628	12/27/90	WIPO				
	89	WO 93/23062	11/25/93	WIPO				
	90	WO 94/01483	01/20/94	WIPO				
	91	WO 94/13697	06/23/94	WIPO				
	92	WO 94/28024	12/08/94	WIPO				
	93	WO 94/29370	12/22/94	WIPO				
	94	WO 95/06058	03/02/95	WIPO				
	95	WO 95/13090	05/18/95	WIPO				
	96	WO 96/11953	04/25/96	WIPO				
	97	WO 96/19242	06/27/96	WIPO				
	98	WO 96/40662	12/19/96	WIPO				
	99	WO 96/41813	12/27/96	WIPO				
	100	WO 97/21452	06/19/97	WIPO				
	101	WO 97/30148	08/21/97	WIPO				
	102	WO 97/33552	09/18/97	WIPO				
	103	WO 97/38727	10/23/97	WIPO			Abst.	
	104	WO 98/01158	01/15/98	WIPO			Abst.	
	105	WO 98/08856	03/05/98	WIPO			Abst.	
	106	WO 98/20905	05/22/98	WIPO				
	107	WO 98/32466	07/30/98	WIPO			Abst.	
	108	WO 98/56424	12/17/98	WIPO				

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	109	WO 99/49897	10/07/99	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	110	Abuchowski and Davis, "Soluble Polymer-Enzyme Adducts," <u>Enzymes as Drugs</u> , 1981, Holcenberg and Rubberts (eds.), Chapter 13, pp. 367-383, John Wiley & Sons N.Y.
	111	Alayash and Cashion, "Hemoglobin and free radicals: implications for the development of a safe blood substitute," <u>Molec. Med. Today</u> , 1995, 1(3):122-127
	112	Ashwell, "Carbohydrate Antigens: Coupling of Carbohydrates to Proteins by a Mixed Anhydride Reaction," <u>Meth. Enzymol.</u> , 1972, 28:219-222
	113	Avigad, "A Simple Spectrophotometric Determination of Formaldehyde and Other Aldehydes: Application to Periodate-Oxidized Glycol Systems," <u>Anal. Biochem.</u> , 1983, 134:499-504
	114	Baldwin et al., "Synthesis of Polymer-Bound Hemoglobin Samples," <u>Tetrahedron</u> , 1981, 37:1723-1726
	115	Balland et al., "Intracellular distribution of ampicillin in murine macrophages infected with <i>Salmonella typhimurium</i> and treated with (³ H)ampicillin-loaded nanoparticles," <u>J. Antimicrob. Chemother.</u> , 1996, 37:105-115
	116	Barbone et al., "Reticulocyte measurements as a bioassay for erythropoietin," <u>J. Pharm. Biomed. Anal.</u> , 1994, 12(4):515-522
	117	Bårström et al., "New derivatives of reducing oligosaccharides and their use in enzymatic reactions: efficient synthesis of sialyl Lewis x and sialyl dimeric Lewis x glycoconjugates," <u>Carbohydr. Res.</u> , 2000, 328:525-531
	118	Bauer et al., "Synthesis of ω -(Aminoxy)alkanethiols," <u>J. Org. Chem.</u> , 1965, 30:949-951
	119	Bauer and Suresh, "S-[ω -(Aminoöxy)alkyl]isothiuronium Salts, ω, ω' -Bis(aminoöxy)alkanes and Related Compounds," <u>J. Org. Chem.</u> , 1963, 28:1604-1608
	120	Bendele et al., "Short Communication: Renal Tubular Vacuolation in Animals Treated with Polyethylene-Glycol-Conjugated Proteins," <u>Toxicol. Sci.</u> , 1998, 42:152-157
	121	Benesch, "Bis(pyridoxal) Polyphosphates as Specific Intramolecular Cross-Linking Agents for Hemoglobin," <u>Meth. Enzymol.</u> , 1994, 231:267-274
	122	Bepperling et al., "HES 130/0.4, a new HES specification: tissue storage after multiple infusions in rats," <u>Crit. Care</u> , 1999, 3(suppl 1):P153
	123	Berger et al., "Galactosyltransferase-dependent sialylation of complex and endo-N-acetylglucosaminidase H-treated core N-glycans in vitro," <u>FEBS Lett.</u> , 1986, 203(1):64-68
	124	Black et al., "N-Bromoacetyl-glycopyranosylamines as affinity labels for a β -glucosidase and a cellulase," <u>Carbohydr. Res.</u> , 1993, 250:195-202
	125	Bobbitt, "Periodate Oxidation of Carbohydrates," <u>Carbohydr. Chem.</u> , 1956, 11:1-41
	126	Boissel et al., "Erythropoietin Structure-Function Relationships. Mutant proteins that test a model of tertiary structure," <u>J. Biol. Chem.</u> , 1993, 268(21):15983-15993
	127	Boturny et al., "Synthesis of Fluorescent Probes for the Detection of Abasic Sites in DNA," <u>Tetrahedron</u> , 1997, 53(15):5485-5492

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	128	Bowen et al., "Estimation of Effective and Total Erythropoiesis in Myelodysplasia Using Serum Transferrin Receptor and Erythropoietin Concentrations, with Automated Reticulocyte Parameters," <u>Leukemia</u> , 1994, 8(1):151-155
	129	Bronzino, <u>The Biomedical Engineering Handbook</u> , CRC Press, USA, Salem, 1995, (TOC only)
	130	Bunn & Jandl, "The Renal Handling of Hemoglobin. II. Catabolism," <u>J. Exp. Med.</u> , 1967, 129:925-934
	131	Burgess et al., "Stimulation by Human Placental Conditioned Medium of Hemopoietic Colony Formation by Human Marrow Cells," <u>Blood</u> , 1977, 49(4):573-583
	132	Bystrický et al., "Determination of the cross-linking effect of adipic acid dihydrazide on glycoconjugate preparation," <u>Glycoconj. J.</u> , 1999, 16:691-695
	133	Cabacungan et al., "Amine Boranes as Alternative Reducing Agents for Reductive Alkylation of Proteins," <u>Anal. Biochem.</u> , 1982, 124:272-278
	134	Carlsson et al., "Protein Thiolation and Reversible Protein-Protein Conjugation," <u>Biochem J.</u> , 1978, 173:723-737
	135	Cerami, "Beyond Erythropoiesis: Novel Applications for Recombinant Human Erythropoietin," <u>Semin. Hematol.</u> , 2001, 38:(3 Suppl 7):33-39
	136	Cerny et al., "A Hydroxyethyl Starch-Hemoglobin Polymer as a Blood Substitute," <u>Clinical Hemorheology</u> , 1982, 2(4):355-365
	137	Chamow et al., "Conjugation of Soluble CD4 without Loss of Biological Activity via a Novel Carbohydrate-directed Cross-linking Reagent," <u>J. Biol. Chem.</u> , 1992, 267(22):15916-15922
	138	Chang, "Blood Substitutes Based on Modified Hemoglobin Prepared by Encapsulation or Crosslinking: An Overview," <u>Biomater. Art. Cells & Immob. Biotech.</u> , 1992, 20:159-179
	139	Chagnon et al., "Murine renal cell carcinoma: evaluation of a dendritic-cell tumour vaccine," <u>BJU Int.</u> , 2001, 88:418-424
	140	Chaplin, "Monosaccharides," <u>Carbohydrate analysis: a practical approach</u> , 1996, Chaplin and Kennedy (eds.), Chapter 1, "Oligosaccharides," pp. 37-54
	141	Chaplin, "A Rapid and Sensitive Method for the Analysis of Carbohydrate Components in Glycoproteins Using Gas-Liquid Chromatography," <u>Anal. Biochem.</u> , 1982, 123:336-341
	142	Chapman et al., "Therapeutic antibody fragments with prolonged in vivo half-lives," <u>Nature Biotech.</u> , 1999, 17:780-783
	143	Chow et al., "In vitro Induction of apoptosis of neoplastic cells in low-grade non-Hodgkin's lymphomas using combinations of established cytotoxic drugs with bendamustine," <u>Haematologica</u> , 2001, 86:485-493
	144	Chu et al., "Further Studies on the Immunogenicity of <i>Haemophilus influenzae</i> Type b and Pneumococcal Type 6A Polysaccharide-Protein Conjugates," <u>Infect. Immun.</u> , 1983, 40:245-256
	145	Cumber et al., "Preparation of Antibody-Toxin Conjugates," <u>Meth. Enzymol.</u> , 1985, 112:207-225
	146	Delgado et al., "The Uses and Properties of PEG-Linked Proteins," <u>Crit. Rev. Ther. Drug Carrier Syst.</u> , 1992, 9(3,4):249-304
	147	Delorme et al., "Role of Glycosylation on the Secretion and Biological Activity of Erythropoietin," <u>Biochemistry</u> , 1992, 31(41):9871-9876
	148	Dittmar et al., "Human Glycoproteins and Derived Variants from Recombinant Mammalian Cell Lines," <u>Advances in Protein Design</u> , 1989, 12:145-156

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	149	Dorner et al., "Increased Synthesis of Secreted Proteins Induces Expression of Glucose-regulated Proteins in Butyrate-treated Chinese Hamster Ovary Cells," <u>J. Biol. Chem.</u> , 1989, 264(34):20602-20607
	150	Dowling and Russell, "Pharmacokinetics of a long-acting oxytetracycline-polyethylene glycol formulation in horses," <u>J. Vet. Pharmacol. Therap.</u> , 2000, 23:107-110
	151	Dreborg and Åkerblom, "Immunotherapy with Monomethoxypolyethylene Glycol Modified Allergens," <u>Crit. Rev. Ther. Drug Carrier Syst.</u> , 1990, 6(4):315-365
	152	Edmunds et al., "Transgenically Produced Human Antithrombin: Structural and Functional Comparison to Human Plasma-Derived Antithrombin," <u>Blood</u> , 1998, 91(12):4561-4571
	153	Blum et al., "Improved silver staining of plant proteins, RNA and DNA in polyacrylamide gels," <u>Electrophoresis</u> , 1987, 8:93-99
	154	Elliott et al., "Mapping of the Active Site of Recombinant Human Erythropoietin," <u>Blood</u> , 1997, 89(2): 493-502
	155	European Pharmacopoeia, "Erythropoietin Concentrated Solution," 3rd Edition, 2000, Monography, pp. 655-660
	156	European Pharmacopoeia, "Erythropoietin Concentrated Solution," 4th Edition, 2002, Monography, pps. 1123-1128
	157	Fernández-Santana et al., "Conjugation of 5-azido-3-oxapentyl glycosides with thiolated proteins through the use of thiophilic derivatives," <u>Glycoconj. J.</u> , 1998, 15:549-553
	158	Fibi et al., "Evidence for the Location of the Receptor-Binding Site of Human Erythropoietin at the Carboxyl-Terminal Domain," <u>Blood</u> , 1991, 77(6):1203-1210
	159	Fibi et al., "N- and O-Glycosylation Muteins of Recombinant Human Erythropoietin Secreted From BHK-21 Cells," <u>Blood</u> , 1995, 85(5):1229-1236
	160	Fissekis et al., "N-Pantylol-(substituted)amines, Pantothenic Acid Analogues," <u>J. Med. Pharm. Chem.</u> , 1960, 2:47-56
	161	Forno et al., "N- and O-linked carbohydrates and glycosylation site occupancy in recombinant human granulocyte-macrophage colony-stimulating factor secreted by a Chinese hamster ovary cell line," <u>Eur. J. Biochem.</u> , 2004, 271:907-919
	162	Gaertner and Offord, "Site-Specific Attachment of Functionalized Poly(ethylene glycol) to the Amino Terminus of Proteins," <u>Bioconjugate Chemistry</u> , 1996, 7(1):38-44
	163	Gervais et al., "NMR investigations of the role of the sugar moiety in glycosylated recombinant human granulocyte-colony-stimulating factor," <u>Eur. J. Biochem.</u> , 1997, 247:386-395
	164	Gillis et al., "T Cell Growth Factor: Parameters of Production and a Quantitative Microassay for Activity," <u>J. Immunol.</u> , 1978, 120(6):2027-2032
	165	Gonzalez Lio and Thiem, "Chemoenzymatic synthesis of spacer-linked oligosaccharides for the preparation of neoglycoproteins," <u>Carbohydr. Res.</u> , 1999, 317:180-190
	166	Gould et al., "The Development of Hemoglobin Solutions as Red Cell Substitutes: Hemoglobin Solutions," <u>Transfus. Sci.</u> , 1995, 16:5-17
	167	Grabenhorst et al., "Construction of stable BHK-21 cells coexpressing human secretory glycoproteins and human Gal(β1-4)GlcNAc-R α2,6-sialyltransferase: α2,6-Linked NeuAc is preferentially attached to the Gal(β1-4)GlcNAc(β1-2)Man(α1-3)-branch of diantennary oligosaccharides from secreted recombinant β-trace protein," <u>Eur. J. Biochem.</u> , 1995, 232:718-725

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	168	Grabenhorst and Conradt, "The Cytoplasmic, Transmembrane, and Stem Regions of Glycosyltransferases Specify Their <i>in vivo</i> Functional Sublocalization and Stability in the Golgi," <u>J. Biol. Chem.</u> , 1999, 274(51):36107-36116
	169	Grabenhorst et al., "Biosynthesis and secretion of human interleukin 2 glycoprotein variants from baculovirus-infected Sf21 cells. Characterization of polypeptides and posttranslational modifications," <u>Eur. J. Biochem.</u> , 1993, 215:189-197
	170	Grabenhorst et al., " <i>In Vivo</i> Specificity of Human α 1,3/4-Fucosyltransferases III-VII in the Biosynthesis of Lewis ^x and Sialyl Lewis ^x Motifs on Complex-type <i>N</i> -Glycans. Coexpression studies from BHK-21 cells together with human β -trace protein," <u>J. Biol. Chem.</u> , 1998, 273(47):30985-30994
	171	Grabenhorst et al., "Genetic engineering of recombinant glycoproteins and the glycosylation pathway in mammalian host cells," <u>Glycoconj. J.</u> , 1999, 16(2):81-97
	172	Gray, "The Direct Coupling of Oligosaccharides to Proteins and Derivatized Gels," <u>Arch. Biochem. Biophys.</u> , 1974, 163:426-428 (Fig. 2.1a)
	173	Greenfield et al., "Evaluation <i>in Vitro</i> of Adriamycin Immunoconjugates Synthesized Using an Acid-sensitive Hydrazone Linker," <u>Cancer Research</u> , 1990, 50:6600-6607
	174	Grimmecke and Brade, "Studies on the reductive amination of 3-deoxy-D-manno-octulosonic acid (Kdo)," <u>Glycoconj. J.</u> , 1998, 15:555-562
	175	Habeeb, "Determination of Free Amino Groups in Proteins by Trinitrobenzenesulfonic Acid," <u>Anal. Biochem.</u> , 1966, 14:328-336
	176	Hai et al., "Diaspirin Crosslinked Hemoglobin (DCLHb TM) Polymerization," <u>Art. Cells, Blood Subs., and Immob. Biotech.</u> , 1994, 22(3):923-931
	177	Hallaway et al., "Modulation of Deferoxamine Toxicity and Clearance by Covalent Attachment to Biocompatible Polymers," <u>Proc. Natl. Acad. Sci. USA</u> , 1989, 86:10108-10112
	178	Hamma and Miller et al., "4-(2-Aminooxyethoxy)-2-(ethylureido)quinoline-Oligonucleotide Conjugates: Synthesis, Binding Interactions, and Derivatization with Peptides," <u>Bioconj. Chem.</u> , 2003, 14:320-330
	179	Hartman and Wold, "Cross-Linking of Bovine Pancreatic Ribonuclease A with Dimethyl Adipimidate," <u>Biochemistry</u> , 1967, 6(8):2439-2448
	180	Hashimoto et al., "Chemical Modification of the Reducing Chain End in Dextran and Trimethylsilylation of Its Hydroxyl Groups," <u>J. Polymer Science: Part A: Polymer Chemistry</u> , 1991, 29:1271-1279
	181	Hattori et al., "Reduced Immunogenicity of β -Lactoglobulin by Conjugation with Carboxymethyl Dextran," <u>Bioconjug. Chem.</u> , 2000, 11:84-93
	182	Herman et al., "Characterization, Formulation, and Stability of Neupogen® (Filgrastim), a Recombinant Human Granulocyte-Colony Stimulating Factor," <u>Formulation, Characterization, and Stability of Protein Drugs</u> , Pearlman and Wang (eds.), Plenum Press, Chapter 7, 1996, pp. 303-328
	183	Hermanson, <u>Bioconjugate Techniques</u> , 1996 (TOC only)
	184	Hermentin et al., "A Strategy for the Mapping of <i>N</i> -Glycans by High-pH Anion-Exchange Chromatography with Pulsed Amperometric Detection," <u>Anal. Biochem.</u> , 1992, 203(2):281-289
	185	Higuchi et al., "Role of Sugar Chains in the Expression of the Biological Activity of Human Erythropoietin," <u>J. Biol. Chem.</u> , 1992, 267(11):7703-7709

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	186	Sharaf et al., "Studies on Aroyl- and Aryl-Hydrazide Derivatives from D-glycero-D-gulo-Heptono-1,4-Lactone," <u>Carbohydrate Res.</u> , 1981, 91:39-48
	187	Inoue et al., "An Improved Method for the Purification of Human Erythropoietin with High <i>in Vivo</i> Activity from the Urine of Anemic Patients," <u>Biol. Pharm. Bull.</u> , 1994, 17(2):180-184
	188	Iwamoto et al., "Polysaccharide-Coated Oil Droplets in Oil-in-Water Emulsions as Targetable Carriers for Lipophilic Drugs," <u>J. Pharm. Sci.</u> , 1991, 80(3):219-224
	189	Jia et al., "S-nitrosohaemoglobin: a dynamic activity of blood involved in vascular control," <u>Nature</u> , 1996, 380:221-226
	190	Jones et al., "A convenient synthesis of <i>N</i> -(<i>tert</i> -butyloxycarbonyl)aminooxy ethers," <u>Tetrahedron Letters</u> , 2000, 41(10):1531-1533
	191	Jones et al., "Multivalent Poly(ethylene glycol)-Containing Conjugates for In Vivo Antibody Suppression," <u>Bioconj. Chem.</u> , 2003, 14(6):1067-1076
	192	Kallin, "Coupling of Oligosaccharides to Proteins Using <i>p</i> -Trifluoroacetamidoaniline," <u>Meth. Enzymol.</u> , 1994, 242:119-123
	193	Keaney, Jr. et al., "NO Forms an Adduct with Serum Albumin that Has Endothelium-derived Relaxing Factor-like Properties," <u>J. Clin. Invest.</u> , 1993, 91:1582-1589
	194	Keipert et al., "Functional properties of a new crosslinked hemoglobin designed for use as a red cell substitute," <u>Transfusion</u> , 1989, 29:768-773
	195	Kitamura et al., "Establishment and Characterization of a Unique Human Cell Line That Proliferates Dependently on GM-CSF, IL-3, or Erythropoietin," <u>J. Cell. Phys.</u> , 1989, 140:323-334
	196	Kitamura et al., "Chemical Engineering of the Monoclonal Antibody A7 by Polyethylene Glycol for Targeting Cancer Chemotherapy," <u>Cancer Res.</u> , 1991, 51:4310-4315
	197	Kleine-Tebbe et al., "Allergen Immunotherapy - A Position Paper of the German Society for Allergology and Clinical Immunology," <u>Pneumologie</u> , 2001, 55:438-444 (w/English summary)
	198	Klemm et al., "Esterification of Cellulose," <u>Comprehensive Cellulose Chemistry</u> , 1998, Vol. 2, Wiley-VCH, Weinheim, New York, especially chapter 4.4, pps. 99-207
	199	Kobayashi et al., "Reduced Immunogenicity of β -Lactoglobulin by Conjugation with Carboxymethyl Dextra Differing in Molecular Weight," <u>J. Agric. Food Chem.</u> , 2001, 49(2):823-831
	200	Kojima et al., "Mitomycin C-dextran conjugate: a novel high molecular weight pro-drug of mitomycin C," <u>J. Pharm. Pharmacol.</u> , 1980, 32:30-34
	201	Komatsu et al., "Cloning of granulocyte colony-stimulating factor cDNA from human macrophages and its expression in <i>Escherichia coli</i> ," <u>Jpn. J. Cancer Res.</u> , 1987, 78(11):1179-1181
	202	Krantz, "Erythropoietin," <u>Blood</u> , 1991, 77(3):419-434
	203	Krystal, "Physical and Biological Characterization of Erythroblast Enhancing Factor (EEF), a Late Acting Erythropoietic Stimulator in Serum Distinct from Erythropoietin," <u>Exp. Hematol.</u> , 1983, 11(1):18-31
	204	Krystal, "A Simple Microassay for Erythropoietin Based on ³ H-Thymidine Incorporation into Spleen Cells from Phenylhydrazine Treated Mice," <u>Exp. Hematol.</u> , 1983, 11(7):649-660
	205	Krystal et al., "Purification of Human Erythropoietin to Homogeneity by a Rapid Five-Step Procedure," <u>Blood</u> , 1986, 67(1):71-79
	206	Kuberan et al., "Preparation and isolation of neoglycoconjugates using biotin-streptavidin complexes," <u>Glycoconj. J.</u> , 1999, 16:271-281

 Examiner Signature
 /Patrick Lewis/ (11/21/2008)

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	207	Kurtz and Eckardt, "Assays for Erythropoietin," <u>Nephron</u> , 1989, 51(suppl 1):11-14 (w/English summary)
	208	Larionova et al., "Conjugation of the Bowman-Birk Soybean Proteinase Inhibitor with Hydroxyethylstarch," <u>Appl. Biochem. Biotech.</u> , 1997, 62:175-182
	209	Lee (ed.), "Synthesis of Peptides and Proteins," <u>Peptide and Protein Drug Delivery</u> , 1991, p. 65
	210	Lee and Lee, "Neoglycoproteins," <u>Glycoproteins II</u> , 1997, Chapter 17, Elsevier Science B.V., pps. 301-620
	211	Leenders et al., " β -Glucuronyl Carbamate Based Pro-moieties Designed for Prodrugs in ADEPT," <u>Tetrahedron Letters</u> , 1995, 36(10):1701-1704
	212	Lees et al., "Activation of soluble polysaccharides with 1-cyano-4-dimethylaminopyridinium tetrafluoroborate for use in protein-polysaccharide conjugate vaccines and immunological reagents," <u>Vaccine</u> , 1996, 14(3):190-198
	213	Lesnefsky et al., "High-Dose Iron-Chelator Therapy During Reperfusion with Deferoxamine-Hydroxyethyl Starch Conjugate Fails to Reduce Canine Infarct Size," <u>J. Cardiovasc. Pharmacol.</u> , 1990, 16(4):523-528
	214	Levy et al., "Recombinant Antithrombin: Production and Role in Cardiovascular Disorder," <u>Sem. Thromb. Hem.</u> , 2001, 27(4):405-416
	215	Lin et al., "Cloning and expression of the human erythropoietin gene," <u>Proc. Natl. Acad. Sci. USA</u> , 1985, 82:7580-7584
	216	Lindsey et al., "Porphyrin Building Blocks for Modular Construction of Bioorganic Model Systems," <u>Tetrahedron</u> , 1994, 50(30):8941-8968, especially p. 8956
	217	Lomant and Fairbanks, "Chemical Probes of Extended Biological Structures: Synthesis and Properties of the Cleavable Protein Cross-linking Reagent [35 S]Dithiobis(succinimidyl propionate)," <u>J. Mol. Biol.</u> , 1976, 104:243-261
	218	Lönngren and Goldstein, "Coupling of Aldobionic Acids to Proteins Using Water-Soluble Carbodiimide," <u>Meth. Enzymol.</u> , 1994, 242:116-118
	219	Manger et al., "1-N-Glycyl β -Oligosaccharide Derivatives as Stable Intermediates for the Formation of Glycoconjugate Probes," <u>Biochemistry</u> , 1992, 31:10724-10732
	220	Manger et al., "Synthesis of 1-N-Glycyl β -Oligosaccharide Derivatives. Reactivity of <i>Lens culinaris</i> Lectin with a Fluorescent Labeled Streptavidin Pseudoglycoprotein and Immobilized Neoglycolipid," <u>Biochemistry</u> , 1992, 31:10733-10740
	221	Maout et al., "Hydroxyethylstarch Conjugated to Human Hemoglobin for use in Blood Transfusion: Comparison with Dextran Conjugates," <u>Carbohydrates and Carbohydrate Polymers - Analysis, Biotechnology, Modification, Antiviral and Other Applications</u> , 1993, Chapter 12, pp. 132-140
	222	McMahon et al., "Pharmacokinetics and Effects of Recombinant Human Erythropoietin After Intravenous and Subcutaneous Injections in Healthy Volunteers," <u>Blood</u> , 1990, 76(9):1718-1722
	223	Meinjohnns et al., "Novel sequential solid-phase synthesis of N-linked glycopeptides from natural sources," <u>J. Chem. Soc., Perkin Trans. 1</u> , 1998, 1:549-560
	224	Mikola and Hänninen, "Introduction of Aliphatic Amino and Hydroxy Groups to Keto Steroids Using O-Substituted Hydroxylamines," <u>Bioconj. Chem.</u> , 1992, 3(2):182-186
	225	Minnema et al., "Recombinant human antithrombin III improves survival and attenuates inflammatory responses in baboons lethally challenged with <i>Escherichia coli</i> ," <u>Blood</u> , 2000, 95(4): 1117-1123

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	226	Miyake et al., "Purification of Human Erythropoietin," <u>J. Biol. Chem.</u> , 1977, 252(15):5558-5564
	227	Montreuil et al., "Hexuronic acids," <u>Carbohydrate analysis: a practical approach</u> , 1996, Chaplin and Kennedy (eds.), Chapter 5, pp. 175-204
	228	Mosbech et al., "Hyposensitization in asthmatics with mPEG-modified and unmodified house dust mite extract," <u>Allergy</u> , 1990, 45(2):130-141
	229	Mosmann, "Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assays," <u>J. Immunol. Meth.</u> , 1983, 65:55-63
	230	Mueller et al., "Recombinant Glycoprotein Product Quality in Proliferation-Controlled BHK-21 Cells," <u>Biotechnol. Bioeng.</u> , 1999, 65(5):529-536
	231	Davis and Flitsch, "A Novel Method for the Specific Glycosylation of Proteins," <u>Tetrahedron Lett.</u> , 1991, 32(46):6793-6796
	232	Nagata et al., "The chromosomal gene structure and two mRNAs for human granulocyte colony-stimulating factor," <u>EMBO J.</u> , 1986, 5(3):575-581
	233	Nagata et al., "Molecular cloning and expression of cDNA for human granulocyte colony-stimulating factor," <u>Nature</u> , 1986, 319:415-418
	234	Nakane et al., "The Accumulation Mechanism of Cationic Mitomycin C-dextran Conjugates in the Liver: In-vivo Cellular Localization and In-vitro Interaction with Hepatocytes," <u>J. Pharm. Pharmacol.</u> , 1988, 40:1-6
	235	Nedospasov and Khomutov, "Synthesis and some properties of aminoxyalkylcelluloses," <u>Bulletin of the Academy of Sciences of the USSR</u> , 1976, Division of Chemical Science, Consultants Bureau, New York, 25:1105-1110
	236	Nimtz et al., "Structural characterization of the oligosaccharide chains of native and crystallized boar seminal plasma spermadhesin PSP-I and PSP-II glycoforms," <u>Eur. J. Biochem.</u> , 1999, 265:703-718
	237	Nimtz et al., "Structures of sialylated oligosaccharides of human erythropoietin expressed in recombinant BHK-21 cells," <u>Eur. J. Biochem.</u> , 1993, 213:39-56
	238	Nimtz et al., "Carbohydrate structures of a human tissue plasminogen activator variant expressed in recombinant Chinese hamster ovary cells," <u>FEBS Lett.</u> , 1990, 271:14-18
	239	Nohynek et al., "Comparison of the potency of glycosylated and nonglycosylated recombinant human granulocyte colony-stimulating factors in neutropenic and nonneutropenic CD rats," <u>Cancer Chemother Pharmacol.</u> , 1997, 39:259-266
	240	Nomura et al., "Pharmacokinetic characteristics and therapeutic effects of mitomycin C-dextran conjugates after intratumoural injection," <u>J. Controlled Release</u> , 1998, 52:239-252
	241	O'Shannessy and Wilchek, "Immobilization of Glycoconjugates by Their Oligosaccharides: Use of Hydrazido-Derivatized Matrices," <u>Analytical Biochemistry</u> , 1990, 191:1
	242	Pawlowski et al., "A new method of non-cross-linking conjugates of polysaccharides to protein via thioether bonds for the preparation of saccharide-protein conjugate vaccines," <u>Vaccine</u> , 1999, 17:1474-1483
	243	Pazur, "Neutral polysaccharides," <u>Carbohydrate analysis: a practical approach</u> , 1996, Chaplin and Kennedy (eds.), Chapter 3, pp. 55-96
	244	Pedley et al., "The potential for enhanced tumour localization by poly(ethylene glycol) modification of anti-CEA antibody," <u>Br. J. Cancer</u> , 1994, 70:1126-1130

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	245	Peeters et al., "Comparison of four bifunctional reagents for coupling peptides to proteins and the effect of the three moieties on the immunogenicity of the conjugates," <u>J. Immunol. Meth.</u> , 1989, 120:133-143
	246	Peron et al., "Hydroxyethyl starch-induced renal insufficiency after plasma exchange in a patient with polymyositis and liver cirrhosis," <u>Clin. Nephrol.</u> , 2001, 55(5):408-411
	247	<u>Pharma Business</u> , July/August 2000, pages 45-60
	248	Quelle et al., "High-Level Expression and Purification of a Recombinant Human Erythropoietin Produced Using a Baculovirus Vector," <u>Blood</u> , 1989, 74(2):652-657
	249	Rabiner et al., "Evaluation of a stroma-free hemoglobin solution for use as a plasma expander," <u>J. Exp. Med.</u> , 1967, 126:1127-1142
	250	Ragupathi et al., "A novel and efficient method for synthetic carbohydrate conjugate vaccine preparation: synthesis of sialyl Tn-KLH conjugate using a 4-(4-N-maleimidomethyl) cyclohexane-1-carboxyl hydrazide (MMCCCH) linker arm," <u>Glycoconj. J.</u> , 1998, 15:217-221
	251	Ramos et al., "Enzymatic Synthesis of Neoglycopeptide Building Blocks," <u>Angew. Chem. Int. Ed.</u> , 2000, 39(2):396-398
	252	Reidhaar-Olson et al., "Identification of Residues Critical to the Activity of Human Granulocyte Colony-Stimulating Factor," <u>Biochemistry</u> , 1996, 35:9034-9041
	253	Relihan et al., "Clearance Rate and Effect on Renal Function of Stroma-Free Hemoglobin Following Renal Ischemia," <u>Ann. Surg.</u> , 1972, 176(6):700-704
	254	Richter and de Belder, "Antibodies against Hydroxyethylstarch Produced in Rabbits by Immunization with a Protein-Hydroxyethylstarch Conjugate," <u>Int. Arch. Allergy Appl. Immun.</u> , 1976, 52:307-314
	255	Rogers et al., "Effects of polymerization on the oxygen carrying and redox properties of diaspirin cross-linked hemoglobin," <u>Biochim. Biophys. Acta</u> , 1995, 1248:135-142
	256	Rohrling et al., "Synthesis and testing of a novel fluorescence label for carbonyls in carbohydrates and cellulose," <u>Synlett</u> , 2001, 5:682-684
	257	Rose, "Facile Synthesis of Homogeneous Artificial Proteins," <u>J. Am. Chem. Soc.</u> , 1994, 116:30-33
	258	Rudolph et al., "Circulation persistence and biodistribution of lyophilized liposome-encapsulated hemoglobin: An oxygen-carrying resuscitative fluid," <u>Crit. Care Med.</u> , 1994, 22:142-150
	259	Rudolph, "The Freeze-Dried Preservation of Liposome Encapsulated Hemoglobin: A Potential Blood Substitute," <u>Cryobiology</u> , 1988, 25:277-284
	260	Rush et al., "Microheterogeneity of Erythropoietin Carbohydrate Structure," <u>Anal. Chem.</u> , 1995, 67(8):1442-1452
	261	Ruttmann et al., "In vivo investigation into the effects of haemodilution with hydroxyethylstarch (200/0.5) and normal saline on coagulation," <u>Br. J. Anaesthesia</u> , 1998, 80(5):612-616
	262	Sadamoto et al., "Control of Bacteria Adhesion by Cell-Wall Engineering," <u>J. Am. Chem. Soc.</u> , 2004, 126:3755-3761
	263	Sadrzadeh et al., "The Long-Acting Parenteral Iron Chelator, Hydroxyethyl Starch-Deferoxamine, Fails to Protect Against Alcohol-Induced Liver Injury in Rats," <u>J. Pharmacol. Exp. Ther.</u> , 1997, 280(2):1038-1042

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.L./ (11/21/2008)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	264	Sakai et al., "Synthesis and Physicochemical Characterization of a Series of Hemoglobin-Based Oxygen Carriers: Objective Comparison between Cellular and Acellular Types," <u>Bioconj. Chem.</u> , 2000, 11:56-64
	265	Sato et al., "Disposition of a Polymeric Prodrug of Mitomycin C, Mitomycin C-Dextran Conjugate, in the Perfused Rat Liver," <u>J. Pharm. Sci.</u> , 1989, 78:11-16
	266	Sawaikar et al., "Products active on mosquitoes. Part VII, Synthesis and biological activity of longifolene derivatives," <u>Indian Journal of Chemistry</u> , 1995, 34B:832-835
	267	Scaglione et al., "A New Model Examining Intracellular and Extracellular Activity of Amoxicillin, Azithromycin, and Clarithromycin in Infected Cells," <u>Chemothérapie</u> , 1993, 39:416-423
	268	Schäfer et al., "Two-year double-blind trial of a monomethoxy polyethylene glycol (mPEG) modified grass pollen extract at different dose levels," <u>Ann. Allergy</u> , 1992, 68(4):334-339
	269	Schlenke et al., "Construction and characterization of stably transfected BHK-21 cells with human-type sialylation characteristic," <u>Cytotechnology</u> , 1999, 30:17-25
	270	Schottelius et al., "Improvement of Pharmacokinetics of Radioiodinated Tyr ³ -Octreotide by Conjugation with Carbohydrates," <u>Bioconjugate Chem.</u> , 2002, 13:1021-1030
	271	Schröter et al., "Male-specific Modification of Human CD52," <u>J. Biol. Chem.</u> , 1999, 274(42):29862-29873
	272	Shafer et al., "Activation of soluble polysaccharides with 1-cyano-4-dimethylaminopyridinium tetrafluoroborate (CDAP) for use in protein-polysaccharide conjugate vaccines and immunological reagents. II. Selective crosslinking of proteins to CDAP-activated polysaccharides," <u>Vaccine</u> , 2000, 18:1273-1281
	273	Shah et al., "Characterization of Colony-stimulating Activity Produced by Human Monocytes and Phytohemagglutinin-stimulated Lymphocytes," 1977, <u>Blood</u> , 50(5):811-821
	274	Shirafuji et al., "A new bioassay for human granulocyte colony-stimulating factor (hG-CSF) using murine myeloblastic NFS-60 cells as targets and estimation of its levels in sera from normal healthy persons and patients with infectious and hematological disorders," <u>Exp. Hematol.</u> , 1989, 17:116-119
	275	Simmons et al., "Potent inhibition of HIV-1 infectivity in macrophages and lymphocytes by a novel CCR5 antagonist," <u>Science</u> , 1997, 276:276-279
	276	Snyder et al., "HbXL99 α : A hemoglobin derivative that is cross-linked between the α subunits is useful as a blood substitute," <u>Proc. Natl. Acad. Sci. USA</u> , 1987, 84:7280-7284
	277	Shu, "Somogyi Micro Copper Method," <u>Method in Carbohydride Chemistry</u> , 1962, 1:383-388
	278	Song et al., "Toxicity and Antitumor Activity of the Conjugate of Mitomycin C with Carboxymethyl-chitin," <u>Arch. Pract. Pharm.</u> , 1993, 53(3):141-147
	279	Souza et al., "Recombinant human granulocyte colony-stimulating factor: effects on normal and leukemic myeloid cells," <u>Science</u> , 1986, 232:61-65
	280	Soyez et al., "Biological evaluation of mitomycin C bound to a biodegradable polymeric carrier," <u>J. Controlled Release</u> , 1997, 47:71-80
	281	Spivak and Hogans, "The In Vivo Metabolism of Recombinant Human Erythropoietin in the Rat," <u>Blood</u> , 1989, 73:90-99
	282	Staros, "N-Hydroxysulfosuccinimide Active Esters: Bis(N-hydroxysulfosuccinimide) Esters of Two Dicarboxylic Acids Are Hydrophilic, Membrane-Impermeant, Protein Cross-Linkers," <u>Biochemistry</u> , 1982, 21:3950-3955

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	283	Sunamoto and Iwamoto, "Protein-Coated and Polysaccharide-Coated Liposomes as Drug Carriers," <u>CRC Critical Review in Therapeutic Drug Carrier Systems</u> , 1986, 2:117-136
	284	Sytowski et al., "Human erythropoietin dimers with markedly enhanced <i>in vivo</i> activity," <u>Proc. Natl. Acad. Sci. USA</u> , 1998, 95(3):1184-1188
	285	Sytowski et al., "An Erythropoietin Fusion Protein Comprised of Identical Repeating Domains Exhibits Enhanced Biological Properties," <u>J. Biol. Chem.</u> , 1999, 274(35):24773-24778
	286	Takeuchi et al., "Relationship between sugar chain structure and biological activity of recombinant human erythropoietin produced in Chinese hamster ovary cells," <u>Proc. Natl. Acad. Sci. USA</u> , 1989, 86:7819-7822
	287	Takeuchi and Kobata, "Structures and functional roles of the sugar chains of human erythropoietins," <u>Glycobiology</u> , 1991, 1(4):337-346
	288	Tam et al., "Soluble Dextran-Hemoglobin Complex as a Potential Blood Substitute," <u>Proc. Natl. Acad. Sci. USA</u> , 1976, 73(6):2128-2131
	289	Tanaka et al., "Pharmacokinetics of recombinant human granulocyte colony-stimulating factor conjugated to polyethylene glycol in rats," <u>Cancer Research</u> , 1991, 51:3710-3714
	290	Thomas et al., "Measuring blood volume with fluorescent-labeled hydroxyethyl starch," <u>Crit. Care Med.</u> , 2000, 28(3):627-631
	291	Thomas, "Carbohydrate Binding Sites," <u>Meth. Enzymol.</u> , 1977, 46:362-368
	292	Thorpe et al., "Blockade of the galactose-binding sites of ricin by its linkage to antibody," <u>Eur. J. Biochem.</u> , 1984, 140:63-71
	293	Toyama et al., "Surface design of SPR-based immunosensor for the effective binding of antigen or antibody in the evanescent field using mixed polymer matrix," <u>Sensors and Actuators B</u> , 1998, 52:65-71
	294	De Velasco et al., "Synthetic Peptides Representing T-Cell Epitopes Act as Carriers in Pneumococcal Polysaccharide Conjugate Vaccines," <u>Infect. Immun.</u> , 1995, 63(3):961-968
	295	Van Patten et al., "Oxidation of Methionine Residues in Antithrombin," <u>J. Biol. Chem.</u> , 1999, 274(15):10268-10276
	296	Veronese et al., "Surface Modification of Proteins. Activation of Monomethoxy-Polyethylene Glycols by Phenylchloroformates and Modification of Ribonuclease and Superoxide Dismutase," <u>Appl. Biochem. Biotech.</u> , 1985, 11:141-152
	297	Vilaseca et al., "Protein conjugates of defined structure: Synthesis and use of a new carrier molecule," <u>Bioconjugate Chemistry</u> , 1993, 4(6):515-520
	298	Webb II and Kaneko, "Synthesis of 1-(Aminooxy)-4-[(3-nitro-2-pyridyl)dithio]butane and 1-(Aminooxy)-4-[(3-nitro-2-pyridyl)dithio]but-2-ene, Novel Heterobifunctional Cross-Linking Reagents," <u>Bioconjugate Chem.</u> , 1990, 1:96-99
	299	Weidler et al., "Pharmakokinetische Merkmale als Kriterien für den klinischen Einsatz von Hydroxyethylstärke," <u>Arzneim.-Forsch./Drug Res.</u> , 1991, 41:494-498 (w/English summary)
	300	White and Kennedy, "Oligosaccharides," <u>Carbohydrate analysis: a practical approach</u> , 1996, Chaplin and Kennedy (eds.), Chapter 2, pp. 1-36
	301	Whitesides et al., "Rates of Thiol-Disulfide Interchange Reactions between Mono- and Dithiols and Ellman's Reagent," <u>J. Org. Chem.</u> , 1977, 42(2):332-338
	302	Wong et al., "Analysis of carbohydrate-protein interactions with synthetic N-linked neoglycoconjugate probes," <u>Biochem. J.</u> , 1993, 296:817-825

Examiner Signature Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14503-019US1	Application No. 10/530,849
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Michele Orlando et al.	
		Filing Date April 8, 2005	Group Art Unit 1623

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	303	Wong et al., "Synthetic glycosylation of proteins using <i>N</i> -(β -saccharide) iodoacetamides: applications in site-specific glycosylation and solid-phase enzymic oligosaccharide synthesis," <u>Biochem. J.</u> , 1994, 300:843-850
	304	Wong, <u>Chemistry of protein conjugation and cross-linking</u> , 1993, CRCs, Inc. (TOC only)
	305	Xue and Wong; "Preparation of Conjugated Hemoglobins," <u>Meth. Enzymol.</u> , 1994, 231:308-322
	306	Yalpani et al., "Selective Chemical Modifications of Dextran," <u>J. Polymer Science: Polymer Chemistry Edition</u> , 1985, 23:1395-1405
	307	Yamaguchi et al., "Effects of site-directed removal of <i>N</i> -glycosylation sites in human erythropoietin on its production and biological properties," <u>J. Biol. Chem.</u> , 1991, 266(30):20434-20439
	308	Yoshida, "Glycamine Formation via Reductive Amination of Oligosaccharides with Benzylamine," <u>Meth. Enzymol.</u> , 1994, 247:55-64
	309	Zalipsky, "Functionalized Poly(ethylene glycol) for Preparation of Biologically Relevant Conjugates," <u>Bioconjugate Chem.</u> , 1995, 6:150-165
	310	Zara et al., "A Carbohydrate-Directed Heterobifunctional Cross-Linking Reagent for the Synthesis of Immunoconjugates," <u>Anal. Biochem.</u> , 1991, 194:156-162
	311	Zettlmeissl et al., "Characterization of Recombinant Human Antithrombin III Synthesized in Chinese Hamster Ovary Cells," <u>J. Biol. Chem.</u> , 1989, 264 (35):21153-21159
	312	Zhou et al., "Application of capillary electrophoresis, liquid chromatography, electrospray-mass spectrometry and matrix-assisted laserdesorption/ionization - time of flight - mass spectrometry to the characterization of recombinant human erythropoietin," <u>Electrophoresis</u> , 1998, 19(13):2348-2355
	313	Zou et al., "Allylmalonamide as a bivalent linker: Synthesis of biantennary Gm ₃ -saccharide-Keyhole limpet hemocyanin glycoconjugate and the immune response in mice," <u>Glycoconj. J.</u> , 1999, 16:507-515
	314	Zucali and Sulkowski, "Purification of human urinary erythropoietin on controlled-pore glass and silicic acid," <u>Exp. Hematol.</u> , 1985, 13(3):833-837

Examiner Signature /Patrick Lewis/ (11/21/2008)	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	